

**WSCF**  
**ANALYTICAL LABORATORY REPORT**

**ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT**

for

**Bechtel Hanford Inc**  
**Richland , WA 99352**

**Attention: S Trent/D Ayres MSIN: H9-03**

**Survey ID B99-007-19**

**Data Validator**

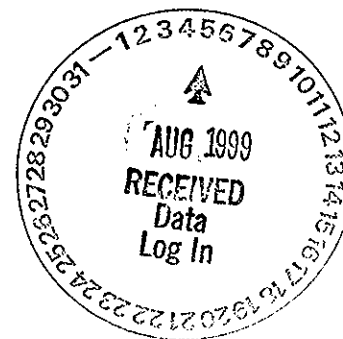
*MK Hamilton*  
(Approved Signatory)

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**Group#: 99001180**  
**Report Date 3-aug-1999**  
bulk/rev.2

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**Waste Management Federal Services Hanford, Inc.**  
**MSIN: S3-28**  
**Richland, WA 99352 Phone 373-7167**



0051990

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## ANALYTICAL LABORATORY REPORT

### ANALYSIS OF BULK SAMPLES FOR FIBER CONTENT

Your samples have been analyzed for fiber content using polarized light microscopy and dispersion staining in accordance with Industrial Hygiene Laboratory Procedure LA-519-403, based on 40 CFR Part 763, Subpart E, App. E and EPA method EPA/600/R-93/116. The results are attached.

This method provides a visual estimate of the percentage of each fiber type present. It is a semiquantitative method intended to identify materials containing  $>$  or  $= 1\%$  asbestos fibers.\* Reported fiber percentages for samples and sample layers are based on the samples as received by the laboratory. The laboratory cannot verify that these values are representative of the original material sampled.

The Waste Sampling and Characterization Facility, is accredited by the National Institute of Standards and Technology (NIST), National Voluntary Laboratory Accreditation Program (NVLAP), to analyze bulk samples for asbestos content. This accreditation does not constitute approval or endorsement of analytical results by NIST nor does it apply to other analyses performed by this laboratory.

If there are questions concerning this report, please contact the approved signatory listed on the cover page of this report.

\* Because of the nonhomogeneous nature of soils, results will be reported using the following terms rather than percentages:

1. None - No asbestos fibers found.
2. Trace detectable - With extensive searching, a few fibers of the type indicated were found; concentration very low, well below 1%.
3. Obvious presence - Fibers easily found but overall concentration still low.
4. Significant presence - Fibers readily found; overall concentration may approach or exceed 1% level.

Polarized light microscopy (PLM) may not be the preferred method for identification of asbestos in floor tile. Most vinyl floor tiles marketed in the late sixties to mid-seventies contained asbestos milled so fine as to be below detection limits for PLM techniques. Tiles of that vintage, showing any detectable asbestos fibers should be considered to be asbestos-containing material. Non-detection of asbestos by PLM should not be considered conclusive proof that the tiles do not contain asbestos. Follow-up analysis by other techniques may be required.

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## ANALYTICAL LABORATORY REPORT

Attention: S Trent/D Ayres MSIN: H9-03

Group #: 99001180

Sample #	Client ID	Test Performed	Range	Result	Units	Analyst	Sampled	Received	Analyzed
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W99I002650 BOW193

The following are the results of this test- Bulk Asbestos Layer 1

Non-Asbestos

NF 100 %

dws1

07/21/99

07/21/99

07/26/99

SAMPLE COMMENT--- 100% white crystals--nonfibrous

SAMPLE COMMENT--- Reportedly from Sampling Location 108F

MDL=Minimum Detection Limit

RQ=Result Qualifier

B - The analyte was detected in the associated method blank.

J - Estimated value.

N - Identification is based on a mass spectral library search.

U - The analyte was analyzed for but not detected.

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## ANALYTICAL COMMENT REPORT

Attention: S Trent/D Ayres MSIN: H9-03

Group #: 99001180

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		Validated 8/3/99 by MK Hamilton, IH Coordinator.
				Please Note: Bulk asbestos analyses currently covered by the WSCF AIHA accreditation, not NIST/NVLAP as stated in the cover letter.
W99I002650	BOW193	LOGSAMP		Received & logged by MK Hamilton 1/21/99
		TESTDATA	Bulk Asbestos Layer 1	Cat III rad sample 100% white crystals--nonfibrous Reportedly from Sampling Location 108F

Lab Areas: VALGROUP - Group Validation  
LOGSAMP - Login for Sample

VALTEST - Test Validation  
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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<b>Bechtel Hanford Inc.</b>		<b>CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST</b>					B99-007-19		Page 1 of 1				
Collector Fahlberg		Company Contact J Adler		Telephone No. 373-4316		Project Coordinator TRENT, SJ		Price Code		Data Turnaround <b>7 Days</b>			
Project Designation 105F & 105DR ISS Project - Other Solid		Sampling Location 108F		SAF No. B99-007									
Ice Chest No.		Field Logbook No. EL 1435		Method of Shipment									
Shipped To Waste Samp. & Char. Fac.		Offsite Property No.		Bill of Lading/Air Bill No.									
				COA <b>R105F02F0C</b>									
POSSIBLE SAMPLE HAZARDS/REMARKS    Special Handling and/or Storage				Preservation		None							
				Type of Container		aG							
				No. of Container(s)		1							
				Volume		60mL							
SAMPLE ANALYSIS				Asbestos									
Sample No.		Matrix *		Sample Date		Sample Time							
B0W193 W99I002650		Other Solid		7-21-99		0945		X					
CHAIN OF POSSESSION		Sign/Print Names											
		Relinquished By		Date/Time		Received By		Date/Time		SPECIAL INSTRUCTIONS  <b>Fax results to Steve Trent DB9179/109565</b>		Matrix *  Soil Water Vapor Other Solid Other Liquid	
		<i>R. Fahlberg</i>		7-21-99		<i>MK Hamilton</i>		7/21/99					
		Relinquished By		Date/Time		Received By		Date/Time					
		<i>MK Hamilton</i>		7/21/99		<i>NH Storage</i>							
Relinquished By		Date/Time		Received By		Date/Time							
<i>NH Storage</i>				<i>BWS</i>		7/22/99							
Relinquished By		Date/Time		Received By		Date/Time							
LABORATORY SECTION		Received By		REMAINING SAMPLE STORED AT WSCF ASBESTOS						Date/Time			
FINAL SAMPLE DISPOSITION		Disposal Method		LAB FOR AT LEAST 3 MONTHS, THEN DISCARDED AS ASBESTOS WASTE						Disposed By			
										Date/Time			